Application No.: 09/827,135

Response to Office Action of July 07, 2004

Attorney Docket: JUNGC-001A

Amendments to the Specification:

Please amend the paragraphs as follows.

[0007] A third form of visual aid is the use of electronic camera in conjunction with a separate video monitor. Disadvantages associated with this approach is are the lack of portability of the whole system, complicated connections and setups, and excessive cost. In addition, human physiology may also be compromised in form of neck and back strain, and even nausea from visual disorientation as a user is required to constantly shift focus from the camera to the video monitor. In addition, the camera unit in this setting is fixed in orientation, thus requiring that the object be brought to the instruction, which may not always be possible or convenient.

[0023] In an exemplary embodiment of the present invention as shown in FIG. 3, the processor system 405 includes sub-processors 401 and 402 having dedicated memory storage mediums 403 and 404¹. In this configuration, one of the sub-processors, such as 401 is dedicated to initializing the camera unit 600 and managing the transferring of raw image data from the camera unit 600 into the memory storage medium 403. The other sub-processor, such as 402, is dedicated to receiving user instructions from the control mechanisms 300, 301 and 302 and transferring data from memory storage medium 404 into display device 100. This sub-processor also performs image modification and manipulations as data is transferred form memory storage medium 403 to memory storage medium 404. In this way, faster processing of the images and the user-inputted instructions is achieved. In addition, each of the sub-processors is provided with its own memory storage unit, such as memory storage mediums 403 and 404 to store instructions and images for that processor.

[0025] Other features and functions of the image processing module 400 may include, but not limited to: image or text processing and enhancement for flat curved objects; image stabilization such as by auto focus and by auto track/cancellation of image jitter due to small band movements, focus track, auto zoom, selectable or variable zoom,

¹ I would appreciate if you could please provide me with some further detail as to the operations of the processors as shown in FIG.3.

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freeze frame and no movement of image opposite to hand motion; color shifting; brightness and contrast enhancement; infrared photography and edge detection and line drawing conversion. In addition, the processor 405 and storage medium 406 can be any commercially available product adapted to user interfacing features of the control mechanism and having features of the control mechanism and having features of image processing, data storage and other functions performed by the image processor disclosed herein. Other image enhancement such as noise elimination, a color re-mapping, inverse video displaying, an illumination equalization mode may also be achieved by the image processing module 400. For example, the noise elimination can be achieved by filtering of undesired features of said object, while the illumination equalization can be achieved by modification of illumination brightness over a selected display area, so as to compensate for a non-ideal positioning of the light source.